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Tarek F. Abdelzaher, Nina Bhatti

May 1999

WWW '99: Proceedings of the eighth international conference on World Wide Web**Publisher:** Elsevier North-Holland, Inc.**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:**Keywords:** Web server performance, adaptive content, overload protection

Also published in:

May 1999 **Computer Networks: The International Journal of Computer and Telecommunications Networking** Volume 31 Issue 11-16**2** [Reactivity-based approaches to improve web systems' quality of service](#)

Adriano César Machado Pereira, Leonardo De Araújo Silva, Wagner Meira, Walter Dos Santos Filho

June 2008

Journal of Web Engineering, Volume 7 Issue 2**Publisher:** Rinton Press, Incorporated**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Understanding the characteristics of Internet services workloads is a crucial step to improve the Quality of Service (QoS) offered to Web users. Moreover, studying and modeling the user behavior is important to analyze the performance and the scalability ...

Keywords: QoS, characterization, performance, reactivity, user behavior, web systems, workload generation**ADVANCED SEARCH**[Advanced Search](#)**FEEDBACK**[Please provide us with feedback](#)Found **392** of **1,720,329****3** [Web servers under overload: How scheduling can help](#)

Bianca Schroeder, Mor Harchol-Batal

February 2006

Transactions on Internet Technology (TOIT), Volume 6 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (1.13 MB)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 99, Downloads (Overall): 1298, Citation Count: 1

This article provides a detailed implementation study on the behavior of web serves that serve static requests where the load fluctuates over time (transient overload). Various external factors are considered, including WAF delays and losses and different ...

Keywords: SRPT, Web server, overload, scheduling, starvation, unfairness**4** [Delivering Adaptive Web Content Based on Client Computing Resources](#)

Andrew Chao, Hanan Lutfiyya

May 2001

EHCI '01: Proceedings of the 8th IFIP International Conference on Engineering for Human-Computer Interaction**Publisher:** Springer-Verlag**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

This paper describes an approach to adapting Web content based on both static (e.g., connection speed) and dynamic information (e.g., CPU load) about a user's computing resources. This information can be transmitted Web Server in two different ways. ...

5 [Agile dynamic provisioning of multi-tier internet applications](#)



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[Michael Gopshtein, Dror G. Feitelson](#)

May 2011

SYSTOR '11: Proceedings of the 4th Annual Int**Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (1.18 MB)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months):

A basic problem in managing web servers is capacity planning where the system automatically trades off quality for throughput adjusting page layout. We evaluate ...

Keywords: degraded service, overload, throughput, web serv

- 2** [A flexible and efficient application programming interface \(A](#)
[Vivek S. Pai, Alan L. Cox, Vijay S. Pai, Willy Zwaenepoel](#)

March 2003

USITS'03: Proceedings of the 4th conference o
Technologies and Systems - Volume 4, Volume 4**Publisher:** USENIX Association**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months):

This paper describes the design, implementation, and perform Programming Interface (API) for providing extended services i of customized content adaptation, ...

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- 3** [X-SHAAD: an XML implementation for hypermedia systems](#)
[David Mérida, Ramón Fabregat, Carlos Arteaga, Anna Urra](#)

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[Jeffrey P. McManus](#), [Chris Kinsman](#)

December 2001

Visual Basic .NET: Developer's Guide to ASP.NET, XML, and ADO.NET

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Before delving into the particulars of developing with C#, it will be useful to overview ASP.NET. This chapter summarizes ASP.NET's features, including some insight into how they represent improvements over ...

3 [Implementation of Distributed E-Learning System on Power Line Network](#)

[Khosro Bahrami](#), [Mehrnosh Abedi](#), [Behzad Daemi](#)

May 2007

AICT '07: Proceedings of the The Third Advanced International Conference on Telecommunicati

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This study introduces a distributed e-learning system on power line network. E-learning system, in general, consists of Learning Management System (LMS) for managing users and courses, Learning Content Manager System (LCMS) for offering educational ...

4 [A Simple Effective Scheme to Enhance the Capability of Web Servers Using P2P Networks](#)

[Jie Yu](#), [Liming Lu](#), [Zhoujun Li](#), [Xiaofeng Wang](#), [Jinshu Su](#)

September 2010

ICPP '10: Proceedings of the 2010 39th International Conference on Parallel Process

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Keywords: DHT, Web server, DDoS, Flash crowds

5 [Snowball: Scalable Storage on Networks of Workstations with Balanced Load](#)

[Radek Vingralek](#), [Yuri Breitbart](#), [Garbard Weikum](#)

April 1998

Distributed and Parallel Databases, Volume 6 Issue 2

Publisher: Kluwer Academic Publishers

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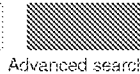
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Strategically placed edge **servers** decrease the **load** on interconnects, public peers The Internet **Content Adaptation** Protocol (ICAP) was developed in the late ...

[PDF] Reduction of Quality Attacks on Content Adaptation Mechanisms

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used are: admission controllers, **load** balancers and **content adaptation** controllers. For example, **server** farms experience performance degradation as more ...

[PDF] ICAP White Paper

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by N Appliance - Cited by 15 - Related articles

Internet **Content Adaptation** Protocol (ICAP). Network Appliance ... ICAP is a protocol designed to off-**load** specific Internet-based content to dedicated **servers**, ...

Trading off Quality for Throughput Using Content Adaptation in Web ...

www.research.ibm.com/haifa/conferences/.../session2_talk3_feitelson.pdf

Servers. Michael Gopshtein, Dror Feitelson, Hebrew University, Jerusalem ... Monitor **load** conditions o E.g. response ... Autom atic **content adaptation** to support ...

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On the **content** provider side, replication and **load**-balancing techniques allow the burden of client requests to be spread out over a myriad of **servers**. **Content** ...

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www.cs.wpi.edu/~claypool/ms/web-load/thesis.pdf

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Deploying your **content** across multiple, geographically dispersed **servers** will make your pages **load** faster from the user's Although using redirects in these situations reduces the complexity for developers, it **degrades** the user experience It allows you to send your **partially** ready HTML response to the browser so that ...

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for legitimate clients, **degraded content** being served and under- utilization of ... This work was **partially** supported by NSF research grants CISE CSR Award. # 0720604, ENG ... the **load** on the **server** and reports this value back to the **content** ...

Load balancing (computing) - Wikipedia, the free encyclopedia

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The **load** balancer forwards requests to one of the "backend" **servers**, which usually feature will not noticeably **degrade** the performance perceived by the end users. ... HTTP caching: the **load** balancer can store static **content** so that some ...

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Downgrade Rights; Activation; Volume Licensing ... The basic **contents** of the spam message remain the same: "Microsoft software offered at cheap prices." ...

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Table of **Contents** ... This page describes how to set up a **load-balanced** scalable NFS **server** using gfs or ... You may find that you need clients to access the same **server** once connected more or less forever, which will **partially** **degrade** the ...

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server load (request rate) is about 3 times the maximum **server** capacity we observed ... is considered from two standpoints their potential for **partial** automation, and their In our study, we downloaded site **content**, **degraded** its quality, and ...

[Load Testing Reveals Cause of SharePoint Server Performance ...](#)

[sharepointmagazine.net/.../load-testing-reveals-cause-of-sharepoint-s... - Cached](#)

Jun 30, 2010 -- For instance, one **server** was not compressing the page **content**. found that if we stopped the **load** test when the **servers** were in a **degraded** ...

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A dissertation submitted in **partial** fulfillment ... or **load**.

We also demonstrate how our abstraction of platform capacity (away from the program-mer) can help 2.13

Server ResponseTimeforDifferentListenQueueLengths .

.... Having illustrated several ways to **degrade** web **content**, a designer must decide whether **content** ...

[PDF] [Co-operative Downloading in Vehicular Ad-hoc Wireless Networks](#)

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swarming protocols is to reduce the **load** on **content**

servers. Peer-to-peer networking ... **degrades** over multi-

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(1999) Abdelzaher, Bhatti. Computer Networks. Read by researchers in: 100% Computer and Information Science. Type: journal. Volume: 31. Pages: 1563-1577.

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connections.ideals.illinois.edu/works/9045 - Cached

Jan 1, 1999 -- Article Title: **Web content adaptation to improve server overload behavior**. Abstract: This paper presents a study of Web content adaptation ...

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www.arnetminer.net/viewpub.do?pid=793177

Abdelzaher, T.F. and Bhatti, N.T. **Web Content Adaptation to Improve Server Overload Behavior**. In Proceedings of Computer Networks. 1999, 1563-1577. ...

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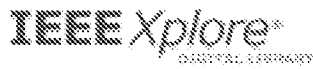
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Design of a framework for dynamic content adaptation to Web-enabled terminals and enterprise applications

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Software Engineering Conference, 1999. (APSEC '99)
Proceedings, Sixth Asia Pacific
Digital Object Identifier: 10.1109/APSEC.1999.809596
Publication Year: 1999, Page(s): 72 - 79

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Web server QoS management by adaptive content delivery

Abdelzaher, T.F.; Bhatti, N.;
Quality of Service, 1999. IWQoS '99. 1999 Seventh
International Workshop on
Digital Object Identifier: 10.1109/IWQOS.1999.766497
Publication Year: 1999, Page(s): 216 - 225
Cited by: 3

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Adapting multimedia Internet content for universal access

Mohan, R.; Smith, J.R.; Chung-Sheng Li;
Multimedia, IEEE Transactions on
Volume: 1, Issue: 1
Digital Object Identifier: 10.1109/8046.748175
Publication Year: 1999, Page(s): 104 - 114
Cited by: 59

IEEE JOURNALS

Adapting content to client resources in the Internet

Mohan, R.; Smith, J.R.; Chung-Sheng Li;
Multimedia Computing and Systems, 1999. IEEE International
Conference on
Volume: 1
Digital Object Identifier: 10.1109/MMCS.1999.779221
Publication Year: 1999, Page(s): 302 - 307 vol.1
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Wireless-adaptation of WWW content over CDMA

Ham, K.; Jung, S.; Yang, S.; Lee, H.; Chung, K.;
Mobile Multimedia Communications, 1999. (MoMuC '99) 1999
IEEE International Workshop on
Digital Object Identifier: 10.1109/MOMUC.1999.819513
Publication Year: 1999, Page(s): 368 - 372

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A connectionist approach for adaptive lesson presentation in a distance learning course

Papanikolaou, K.A.; Magoulas, G.D.; Grigoriadou, M.;
Neural Networks, 1999. IJCNN '99. International Joint
Conference on
Volume: 5
Digital Object Identifier: 10.1109/IJCNN.1999.836234
Publication Year: 1999, Page(s): 3522 - 3526 vol.5

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Towards a computationally intelligent lesson adaptation for a distance learning course

Magoulas, G.D.; Papanikolaou, K.A.; Grigoriadou, M.;
Tools with Artificial Intelligence, 1999. Proceedings. 11th IEEE
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Digital Object Identifier: 10.1109/TAI.1999.809758
Publication Year: 1999 , Page(s): 5 - 12

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Querying and personalizing the Web: a multimedia personal assistant

Bianchi-Berthouze, N.; Kato, T.;
Systems, Man, and Cybernetics, 2000 IEEE International
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Volume: 1
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Publication Year: 2000 , Page(s): 678 - 683 vol.1

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Wilks, Y.;
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1998/499), IEEE Colloquium on
Digital Object Identifier: 10.1049/cd:19980362
Publication Year: 1998

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Adaptation of Internet access on a broadband DAVIC architecture

Zahariadis, T.; Georgopoulos, G.; Nellas, V.; Stassinopoulos,
G.;
Computers and Communications, 1997. Proceedings., Second
IEEE Symposium on
Digital Object Identifier: 10.1109/ISCC.1997.616055
Publication Year: 1997 , Page(s): 507 - 511
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Architecture for the interaction and access on multimedia database systems in the context of mobile environments

Flach, G.; Gunther, N.;
Database Engineering and Applications Symposium, 2000
International
Digital Object Identifier: 10.1109/IDEAS.2000.880580
Publication Year: 2000 , Page(s): 224 - 230

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Distributed application service for Internet information portal

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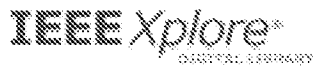
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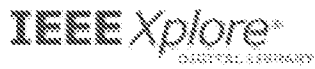
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